Claims

- 1. A communication system (10) for integrating services in an environment having several spatial zones (cabin 1, cabin 2), particularly in a ship, comprising an IP-based communication network (20), at least one adapting and connecting device (30, 30') that is connected to the IP-based communication network (20) and that is assigned to a spatial zone (cabin 1, cabin 2), whereby the adapting and connecting device (30, 30') has a first group of interfaces (40, 50, 120) for connecting non-IP-based devices as well as a device (80) for converting messages supplied by a non-IP-based device or supplied to a non-IP-based device into IP data in accordance with an IP communication protocol, and whereby an IP address is assigned to the adapting and connecting device (30, 30').
- 2. The communication system (10) for integrating services according to claim 1, characterized by a second group of interfaces (130) for connecting IP-based devices.
- 3. The communication system (10) for integrating services according to claim 1 or 2, characterized in that a pre-specified priority is assigned to at least one of the interfaces (40, 50, 120, 130) and in that the adapting and connecting device (30, 30') has a priority-controlled switching matrix (90) for connecting an interface (40, 50, 120, 130) to the IP-based communication network (20).
- 4. The communication system (10) for integrating services according to claim 1, 2 or 3, characterized in that a pre-specified priority is assigned to at least one message intended for at least one interface (40, 50, 120, 130), and in that the adapting and connecting device (30, 30') has a priority-controlled switching matrix (90) for forwarding the message in accordance with its priority to the IP-based communication network (20).
- 5. The communication system (10) for integrating services according to one of claims 1 to 4, characterized in that, in each case, an analog-to-digital and digital-to-analog converter (60, 65, 70, 75) is assigned to at least some interfaces (40, 50) of the first group.

- 6. The communication system (10) for integrating services according to one of claims 1 to 5, characterized in that the adapting and connecting device (30, 30') has a programmable device (200) for activating or deactivating the interfaces.
- 7. The communication system (10) for integrating services according to one of claims 1 to 6, characterized in that the adapting and connecting device (30, 30') is designed for remote configuration and maintenance.
- 8. The communication system (10) for integrating services according to one of claims 1 to 7, characterized in that the adapting and connecting device (30, 30') has a storage unit (190) for storing configuration data and/or for temporarily storing the messages received at the interfaces (40, 50, 120, 130) or received via the IP-based communication network (20).
- 9. The communication system (10) for integrating services according to one of claims 1 to 8, characterized in that the adapting and connecting device (30, 30') has a monitoring device (180) for the interfaces (40, 50, 120, 130) as well as a device for generating and transmitting status and/or error messages to a management device (26).
- 10. The communication system (10) for integrating services according to one of claims 1 to 9, characterized in that the adapting and connecting device (30, 30') has a device for encrypting and decrypting (100) messages.
- 11. The communication system (10) for integrating services according to one of claims 1 to 9, characterized in that the adapting and connecting device (30, 30') has an internal power supply device (150) by means of which the IP-based devices and the non-IP-based devices connected to the interfaces can be temporarily supplied with electric power.
- 12. An adapting and connecting device (30, 30'), especially for use in a communication system (10) for integrating services according to one of claims 1 to 11, characterized by a first group of interfaces (40, 50, 120) for connecting non-IP-based devices as

- well as a device (80) for converting messages supplied by a non-IP-based device into IP data in accordance with an IP communication protocol.
- 13. The adapting and connecting device (30, 30') according to claim 12, characterized by a second group of interfaces (130) for connecting IP-based devices.
- 14. The adapting and connecting device (30, 30') according to claim 12 or 13, characterized in that a pre-specified priority is assigned to at least one of the interfaces and in that the adapting and connecting device has a priority-controlled switching matrix (90) for connecting an interface to an IP-based communication network.
- 15. The adapting and connecting device (30, 30') according to one of claims 12 to 14, characterized in that a pre-specified priority is assigned to at least one message intended for at least one interface (40, 50, 120, 130), and in that the adapting and connecting device (30, 30') has a priority-controlled switching matrix (90) for forwarding the message in accordance with its priority to the IP-based communication network (20).
- 16. The adapting and connecting device (30, 30') according to one of claims 12 to 15, characterized by a programmable device (200) for activating and deactivating the interfaces (40, 50, 120, 130).
- 17. The adapting and connecting device (30, 30') according to one of claims 12 to 16, characterized by a monitoring device (180) for the interfaces (40, 50, 120, 130) as well as a device for generating and transmitting status and/or error messages to a management device (26).
- 18. The adapting and connecting device (30, 30') according to one of claims 12 to 17, characterized by a device (100) for encrypting and decrypting messages.
- 19. The adapting and connecting device (30, 30') according to one of claims 12 to 18, characterized by an internal power supply device (150).